

Claims:

1. (currently amended) A pressure sensitive adhesive article, comprising:
a pressure sensitive adhesive layer mainly formed of polyurethane resin; and
a releasing agent layer mainly formed of polyolefin resin, which has a numerical average molecular weight of about 15,000 to about 500,000 determined by GPC, is adhered to the pressure sensitive adhesive layer, wherein wetting tension at the surface of the releasing agent layer which faces the pressure sensitive adhesive layer measured according to the wetting tension test defined by JIS K 6768 is equal to or less than 33 mN/m, and further wherein the polyolefin resin is selected from the group consisting of polyethylene, polypropylene, ethylene α copolymers, olefin-based thermoplastic elastomer, and a mixture of the foregoing.
2. (original) A pressure sensitive adhesive article, comprising:
a pressure sensitive adhesive layer mainly formed of polyurethane resin; and
a releasing agent layer mainly formed of polyolefin resin having a density of equal to or less than 0.94 g/cm³, which is adhered to the pressure sensitive adhesive layer.
3. (currently amended) A pressure sensitive adhesive article, comprising:
a pressure sensitive adhesive layer mainly formed of polyurethane resin; and
a releasing agent layer mainly formed of polyolefin resin having a density of equal to or less than 0.94 g/cm³ and having a numerical average molecular weight of about 15,000 to about 500,000 determined by GPC, which is adhered to the pressure sensitive adhesive layer, wherein wetting tension at the surface of the releasing agent layer which faces the pressure sensitive adhesive layer measured according to the wetting tension test defined by JIS K 6768 is equal to or less than 33 mN/m, and further wherein the polyolefin resin is selected from the group consisting of polyethylene, polypropylene, ethylene α copolymers, olefin-based thermoplastic elastomer, and a mixture of the foregoing.

4. (original) The pressure sensitive adhesive article as claimed in claim 1, wherein the pressure sensitive adhesive article is a pressure sensitive adhesive sheet with a release sheet, which comprises:

a pressure sensitive adhesive sheet including a base material on which the pressure sensitive adhesive layer is provided, and

a release sheet including a release sheet base material on which the releasing agent layer is provided, the release sheet being removably attached to the pressure sensitive adhesive layer of the pressure sensitive adhesive sheet through the releasing agent layer thereof.

5. (original) The pressure sensitive adhesive article as claimed in claim 4, wherein even if the pressure sensitive adhesive sheet having the pressure sensitive adhesive layer contains silicone compound, the content thereof is 500 g/m^2 or less.

6. (formally amended) The pressure sensitive adhesive article as claimed in claim 4, wherein when the pressure sensitive adhesive sheet is used after it has been peeled off from the release sheet, and the pressure sensitive adhesive sheet generates a gas at a temperature of 85°C for 30 minutes, the amount of the gas generated from the pressure sensitive adhesive sheet is equal to or less than 20 mg/m^2 .

7. (original) The pressure sensitive adhesive article as claimed in claim 4, wherein when the pressure sensitive adhesive sheet is used after it has been peeled off from the release sheet, the pressure sensitive adhesive sheet contains ions of NO_x^- , Cl^- , PO_4^{3-} , F^- , K^+ , Na^+ and Ca^{2+} , but the sum of amounts of these ions is equal to or less than 20 mg/m^2 .

8. (original) The pressure sensitive adhesive article as claimed in claim 4, wherein the base material of the pressure sensitive adhesive sheet is formed from a plastic film or a lint-free paper.

9. (original) The pressure sensitive adhesive article as claimed in claim 4, wherein the pressure sensitive adhesive sheet further comprises at least one antistatic layer provided on one or both of the surfaces of the base material.
10. (original) The pressure sensitive adhesive article as claimed in claim 1, wherein the pressure sensitive adhesive article is a pressure sensitive adhesive tape which comprises a base material having both surfaces, the pressure sensitive adhesive layer provided on one of the surfaces of the base material and the releasing agent layer provided on the other surface of the base material, wherein the pressure sensitive adhesive tape being wound in a roll form until it is used.
11. (original) The pressure sensitive adhesive article as claimed in claim 10, wherein even if the pressure sensitive adhesive tape having the pressure sensitive adhesive layer contains silicone compound, the content thereof is 500 g/m^2 or less.
12. (original) The pressure sensitive adhesive article as claimed in claim 10, wherein when the pressure sensitive adhesive tape is used, the pressure sensitive adhesive tape may generate a gas at a temperature of 85°C for 30 minutes, but the amount of the gas generated from the pressure sensitive adhesive tape is equal to or less than 20 mg/m^2 .
13. (original) The pressure sensitive adhesive article as claimed in claim 10, wherein when the pressure sensitive adhesive tape is used, the pressure sensitive adhesive tape contains ions of NO_x^- , Cl^- , PO_4^{3-} , F^- , K^+ , Na^+ and Ca^{2+} , but the sum of amounts of these ions is equal to or less than 20 mg/m^2 .
14. (original) The pressure sensitive adhesive article as claimed in claim 10, wherein the base material of the pressure sensitive adhesive tape is formed from a plastic film or a lint-free paper.

15. (original) The pressure sensitive adhesive article as claimed in claim 10, wherein the pressure sensitive adhesive tape further comprises at least one antistatic layer provided on one or both of the surfaces of the base material.

16. (currently amended) An adhesive sheet with a release sheet comprising:
an adhesive sheet comprising a base material and an adhesive layer provided on one surface of the base material; and
a release sheet comprising a release sheet base material and a release agent layer provided on one surface of the release sheet base material;
wherein the adhesive layer and the release sheet are in contact;
wherein the adhesive layer of the adhesive sheet comprises mainly a polyurethane resin;
wherein the release agent layer of the release sheet comprises mainly a polyolefin resin whose density is equal to or less than 0.94 g/cm^3 and whose numerical average molecular weight is about 15,000 to about 500,000 determined by GPC, and the polyolefin resin is selected from the group consisting of polyethylene, polypropylene, ethylene α copolymers, olefin-based thermoplastic elastomer, and a mixture of the foregoing; and
wherein a wetting tension at a connecting surface of the adhesive layer and the peel-off layer is equal to or less than 33 mN/m according to JIS K 6768.

17. (currently amended) The adhesive sheet of claim 16, wherein the polyolefin resin is selected from the group consisting of a polyethylene resin whose density is ~~0.86—0.88~~ 0.900 to 0.922 g/cm^3 and an olefin-based thermoplastic elastomer whose density is ~~0.9000—0.922~~ 0.86 to 0.88 g/cm^3 .

18. (formally presented) The adhesive sheet of claim 17, wherein the olefin-based thermoplastic elastomer is selected from the group consisting of an ethylene-propylene copolymer and an ethylene-octene copolymer.

19. (cancelled)

20. (formally presented) The adhesive sheet of claim 16, wherein an adhesion enhancing layer is provided between the release sheet base material and the release agent layer.

21. (formally presented) The adhesive sheet of claim 20, wherein the release sheet base material is made of a material selected from the group consisting of a plastic film and a lint-free paper, and wherein the adhesion enhancing layer is made of a polyethylene resin.

22. (formally presented) The adhesive sheet of claim 16, wherein the polyurethane resin comprises a resin obtained by reacting a polyol and a polyisocyanate.